

Notice of Allowability

Application No.

09/975,089

Examiner

F. Lin Khoo

Applicant(s)

GARCIA-LUNA-ACEVES ET AL.

Art Unit

2664

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 9/27/2005.
2. ☒ The allowed claim(s) is/are 1-9, 11-13 and 23-49.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

REASONS FOR ALLOWANCE

Claims 1-9, 11-13, 23-26, 27-38, 39-49 are allowed.

The following is an examiner's statement of reasons for allowance: the prior art made of record does not teach in combination

maintaining routing table entry until router no longer receives data traffic from source wherein the step of maintaining the routing table entry comprising (a) time stamping a route when route is entered into routing table and when a data packet for the destination is received by router (b) comparing the timestamp of a route to current time at the router (c) removing route from the routing table if the difference between time stamps exceeds a threshold;

maintaining routing table entry until router no longer receives data traffic from source and deleting routing table entry if router no longer receives data traffic from source wherein the step of deleting the routing table entry comprising (a) time stamping a route when route is entered into routing table and when a data packet for the destination is received by router (b) comparing the timestamp of a route to current time at the router (c) removing route from the routing table if the difference between time stamps exceeds a threshold;

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starting a diffusion search if a router receives data packet for routing to a destination for which it has no routing table entry; creating a routing table entry based on diffusing search; (a) time stamping a route when route is entered into routing table and when a data packet for the destination is received by router (b) comparing the timestamp of a route to current time at the router (c) deleting route from the routing table if the difference between time stamps exceeds a threshold;

maintaining routing table entry further comprises sending a delete update with a negative reported distance to a neighboring router;

an active router ignores a delete update from a neighboring router;

when a passive router receives a delete update, the passive router checks to determine if it has a successor other than the successor to which the delete update was sent; if a successor exists, then the passive router does not change its routing table entries, but removes from the distance table the earlier distance reported by the neighboring router that sent the delete update; and if a successor does not exist, then the destination entry is removed from the routing table of the passive router and the passive router sends a delete update to a neighboring router.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

U.S. Patent No. 4,825,206 to Brice, Jr et al. relates to communication networks, and more particularly to such networks in which the path, or route, that a message takes through the network is computed dynamically, that is, the path is determined anew each time a communication session between two users of the network is established.

U.S. Patent No. 5,027,350 to Marshall relates to a routing engine with routing tables that is accessed by applying a hashing algorithm to a received destination address contained in the data packet to determine the table location and then checking that the station address retrieved from the table location corresponds with the destination address in the received data packet.

U.S. Patent No. 6,118,760 to Zaumen et al. relates to methods in a network element for allowing a matching entry in a forwarding memory to be found in a single search of the memory, for determining when an entry should be placed in the memory,

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and for determining when an entry should be removed from the memory, in order to make more efficient use of the fixed space available in the memory.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to F. Lin Khoo whose telephone number is 571-272-5508. The examiner can normally be reached on flex time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wellington Chin can be reached on 571-272-3134. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



WELLINGTON CHIN
SUPERVISORY PATENT EXAMINER